WHAT IS CLAIMED IS:

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- 1. An induction heating roller device comprising: an induction coil;
- a grounded heating roller magnetically coupled to the induction coil and heated by electro-magnetic induction;
 - a power factor improving capacitor connected in parallel to and near the induction coil and having a grounded intermediate point; and
- 10 a high-frequency power source for biasing the induction coil.
 - 2. The induction heating roller device of claim 1, wherein the power factor improving capacitor includes two series-connected capacitors, wherein an intermediate point between the capacitors is grounded.
 - 3. The induction heating roller device of claim 1, wherein the induction coil includes a first terminal and a second terminal, and the power factor improving capacitor includes a first capacitor connected between the first terminal and the ground and a second capacitor connected between the second terminal and the ground.
- 4. The induction heating roller device of claim 1, further comprising a coil bobbin for winding the induction coil, wherein the coil bobbin includes a recess for accommodating the power factor improving capacitor.
- 30 5. The induction heating roller device of claim 1, wherein the high-frequency power source is separated from the induction coil.

- 6. An induction heating roller device comprising: an induction coil;
- a grounded heating roller magnetically coupled to the induction coil and heated by electro-magnetic induction;
- a power factor improving capacitor connected in parallel to and near the induction coil and having a grounded intermediate point;
- a high-frequency power source for biasing the induction coil;
- a high-frequency transmission line connecting the high-frequency power source and the induction coil; and
 - a matching circuit connected between the high-frequency power source and the high-frequency transmission line and located near the high-frequency power source.

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7. The induction heating roller device of claim 6, wherein the power factor improving capacitor includes two series-connected capacitors, wherein an intermediate point between the capacitors is grounded.

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- 8. The induction heating roller device of claim 6, wherein the induction coil includes a first terminal and a second terminal, and the power factor improving capacitor includes a first capacitor connected between the first terminal and the ground and a second capacitor connected between the second terminal and the ground.
- 9. The induction heating roller device of claim 6, further comprising a coil bobbin for winding the induction coil, wherein the coil bobbin includes a recess for accommodating the power factor improving capacitor.
 - 10. The induction heating roller device of claim 6,

wherein the high-frequency power source and the matching circuit are separated from the induction coil.

- 11. The induction heating roller device of claim 6,5 wherein the high-frequency transmission line is arranged near the induction coil in the heating roller.
 - 12. A fixing device for use with a recording medium bearing a toner image, the fixing device comprising:

10 a pressure roller; and

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an induction heating roller device including a heating roller arranged in pressure contact with the pressure roller, wherein the heating roller transports the recording medium bearing a toner image by holding the recording medium with the pressure roller and fixes the toner image on the recording medium, the induction heating roller device further including:

an induction coil;

a grounded heating roller magnetically coupled to the induction coil and heated by electro-magnetic induction;

a power factor improving capacitor connected in parallel to and near the induction coil and having a grounded intermediate point; and

a high-frequency power source for biasing the induction coil.

- 13. A fixing device for use with a recording medium bearing a toner image, the fixing device comprising:
 - a pressure roller; and

an induction heating roller device including a heating roller arranged in pressure contact with the pressure roller, wherein the heating roller transports the recording

medium bearing a toner image by holding the recording medium with the pressure roller and fixes the toner image on the recording medium, the induction heating roller device further including:

an induction coil;

a grounded heating roller magnetically coupled to the induction coil and heated by electro-magnetic induction;

a power factor improving capacitor connected in parallel to and near the induction coil and having a grounded intermediate point;

a high-frequency power source for biasing the induction coil;

a high-frequency transmission line connecting the high-frequency power source and the induction coil; and

a matching circuit connected between the high-frequency power source and the high-frequency transmission line and located near the high-frequency power source.

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14. An image forming apparatus for use with a recording medium, the image forming apparatus comprising:

an image forming unit for forming a toner image on the recording medium;

a fixing device for transporting the recording medium bearing the toner image and fixing the toner image on the recording medium, the fixing device including:

a pressure roller; and

an induction heating roller device including a heating roller arranged in pressure contact with the pressure roller, wherein the heating roller transports the recording medium bearing a toner image by holding the recording medium with the pressure roller and fixes

the toner image on the recording medium, the induction heating roller device further including:

an induction coil;

a grounded heating roller magnetically coupled to the induction coil and heated by electro-magnetic induction;

a power factor improving capacitor connected in parallel to and near the induction coil and having a grounded intermediate point; and

a high-frequency power source for biasing the induction coil.

- 15. An image forming apparatus for use with a recording medium, the image forming apparatus comprising:
- an image forming unit for forming a toner image on the recording medium;
 - a fixing device for transporting the recording medium bearing the toner image and fixing the toner image on the recording medium, the fixing device including:
- a pressure roller; and

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an induction heating roller device including a heating roller arranged in pressure contact with the pressure roller, wherein the heating roller transports the recording medium bearing a toner image by holding the recording medium with the pressure roller and fixes the toner image on the recording medium, the induction heating roller device further including:

an induction coil;

- a grounded heating roller magnetically coupled to the induction coil and heated by electro-magnetic induction;
- a power factor improving capacitor connected in parallel to and near the induction coil and

having a grounded intermediate point;

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a high-frequency power source for biasing the induction coil;

a high-frequency transmission line connecting the high-frequency power source and the induction coil; and

a matching circuit connected between the high-frequency power source and the high-frequency transmission line and located near the high-frequency power source.